



Wireless 802.11n Gigabit Router

300 Mbps Wireless 802.11n, MIMO, QoS, 4-Port 10/100/1000 Mbps LAN Switch

Part No.: **524315**

Wireless networking with four times the range and 12 times the speed.

The INTELLINET NETWORK SOLUTIONS Wireless 802.11n Gigabit Router is the latest in wireless networking technology. Taking advantage of Wireless N, a wireless network can now see greatly enhanced network speeds and an increase in overall transmission distance.

Multiple Solutions in One Device

The INTELLINET NETWORK SOLUTIONS Wireless 802.11n Gigabit Router serves multiple purposes — an access point for your wireless network, a 4-port Gigabit router for your hard-wired Ethernet devices — and it brings it all together to maximize your high-speed Internet access.

Integrated Gigabit Ethernet Switch

Lightning-fast file transfers, high-definition (HD) video streaming and plenty of bandwidth for VoIP applications. Take advantage of the integrated Gigabit Ethernet LAN switch, which removes the bottleneck caused by regular 10/100 Mbps devices. Only with a Gigabit-enabled wireless router can you take full advantage of the additional performance provided by the new 300 Mbps Wireless 802.11n standard.

Increased Performance and Wireless Coverage

The new Wireless N standard has dramatically increased the overall performance of a wireless network. With speeds up to 300 Mbps and a coverage distance of up to 600 m, the new Wireless N technology greatly surpasses that of Wireless G.

Features:

- Up to 300 Mbps network link speed
- Supports WMM function to meet the multi-media data bandwidth requirement
- Supports advanced 2T3R MIMO technology, enhancing the throughput and coverage range significantly
- Supports Wi-Fi Protected Setup (WPS)
- Supports WEP and WPA/WPA2 (TKIP and AES) data encryption
- Integrated 10/100/1000 Mbps LAN switch with Auto MDI/MDI-X support
- Easy Internet setup through WAN connection wizard
- DHCP server assigns IP addresses for all LAN users

For more information on Intellinet products, consult your local dealer or visit www.intellinet-network.com.

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- DHCP Server supports static lease management
- Supports virtual server, port forwarding and DMZ (demilitarized zone)
- Supports DDNS (dynamic DNS)
- Supports UPNP (Universal Plug and Play)
- Integrated anti-DOS firewall
- QoS (Quality of Service) bandwidth management
- VPN Pass Through (PPTP)
- Complies with 2.4 GHz IEEE 802.11n standard and is backward compatible with IEEE 802.11g/b standards
- Use INTELLINET NETWORK SOLUTIONS Wireless N WLAN adapters and cards for best compatibility and performance
- Easy installation through Web-based user interface
- System Status
- Security Log
- Firmware Upgradeable
- Three-Year Warranty

Specifications:

Standards

- IEEE 802.1d (Spanning Tree Protocol)
- IEEE 802.11b (11 Mbps Wireless LAN)
- IEEE 802.11g (54 Mbps Wireless LAN)
- IEEE 802.11n (300 Mbps Wireless LAN)
- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- IEEE 802.3ab (Gigabit Ethernet)

General

- LAN ports: 4 RJ45 10/100/1000 Mbps data ports
- LAN ports with Auto MDI/MDI-X
- WAN port: 10/100/1000 Mbps RJ45 connector
- LAN to WAN throughput: 124 Mbps
- PPPoE throughput: 98 Mbps
- Flash: 4 MB
- Memory: 16 MB SDRAM
- Certifications: FCC Class B, CE Mark, RoHS

Router

- Supported WAN connection types:
 - Dynamic IP (DHCP for cable service)
 - Static IP
 - PPPoE (for DSL)
 - PPTP
- Protocols:
 - CSMA/CA
 - CSMA/CD

- TCP/IP
- UDP
- ICMP
- PPPoE
- NTP
- NAT (network address translation)
- DHCP
- DNS
- NAT:
 - Virtual server
 - Port forwarding
 - Special applications (port trigger)
- Firewall:
 - Access control based on MAC address
 - URL filter
 - DMZ (demilitarized zone)
- Supports UPNP (Universal Plug and Play)
- Supports DHCP (client/server)
- Supports PPPoE (DSL), DHCP (cable) and static IP
- VPN pass-through: PPTP protocol

Wireless

- Chipset: Ralink RT2880
- Wireless frequency range: 2.412 – 2.472 GHz
- Modulation technologies:
 - 802.11b: Direct Sequence Spread Spectrum (DSSS): DBPSK, DQPSK, CCK
 - 802.11g: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM
 - 802.11n: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM
- Channels:
 - USA & Canada: 11 channels
 - Europe: 13 channels
 - Japan: 14 channels
- Data rates:
 - IEEE 802.11b (11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps)
 - IEEE 802.11g (54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
- Output power:
 - OFDM: 15 dBm +/- 1 dBm (300 Mbps, 50 mW max.)
 - OFDM: 15 dBm +/- 1 dBm (300 Mbps, 50 mW max.)
 - CCK: 18 dBm +/- 1 dBm (11 Mbps, 80 mW max.)
- Receiver sensitivity:
 - 11n (300 Mbps): 20 MHz: -71 dBm; 40MHz: -68 dBm
 - 11g (54 Mbps): -74 dBm
 - 11b (11 Mbps): -87 dBm
- Maximum coverage distance: 100 m / 328 ft. (indoor), 300 m / 980 ft. (outdoor)
- Wireless security:

- WEP encryption (64/128 bit)
- WPA TKIP
- WPA2 AES
- WPA2 mixed
- WPA RADIUS
- Client access control through media access control (MAC) filter
- Antennas:
 - 3 fixed-dipole antennas with 3 dBi gain each
 - 2T3R MIMO mode (2 transmitter, 3 receiver)

LEDs

- Power
- WLAN Link/Act
- WAN Link/Act
- WAN 10/100 Mbps
- LAN 1-4 Link/Act
- LAN 1-4 10/100/1000 Mbps

Environmental

- Dimensions: 195 (W) x 127 (L) x 35 (H) mm (7.6 x 5.0 x 1.4 in.)
- Weight: 1.0 kg (2.2 lbs.)
- Operating temperature: 0 – 50°C (32 – 122°F)
- Operating humidity: 10 – 95% RH, non-condensing
- Storage temperature: -20 – 60°C (4 – 149°F)

Power

- External power adapter: 12 V DC, 1.0 A
- Power consumption: 7.2 Watts max.

Package Contents

- Wireless 802.11n Gigabit Router
- User manual
- Power adapter
- Ethernet Cat5 RJ45 cable: 1.0 m (3 ft.)

